

24 6. The stent of claim 2 wherein the stent is fused to a second stent.

112 25 7. The stent of claim 2 wherein (5) the second stent further comprises at least one second stent strut, the at least one second stent strut has a second stent transverse cross section, the second stent transverse cross section having a second stent top side, a second stent bottom side, a second stent right side and a second stent left side, wherein the second stent top and second stent bottom sides are substantially flat, and the second stent left and second stent right sides are substantially curved.

112 26 8. The stent of claim 2 wherein the cross section is ellipsoidal.

112 27 9. The stent of claim 2 wherein the cross section is elliptorectangular.

28 10. The stent of claim 2 wherein the stent is self expanding.

29 11. The stent of claim 2 wherein the bottom side joins the left side through a smooth rounded edge.

30 12. The stent of claim 2 wherein the top side joins the left side through a smooth rounded edge.

31 13. A system for treating a vessel lumen comprising:

a stent having a lumen there through;

a catheter at least partially extending through the lumen; wherein

the stent is fashioned from at least one strut, the at least one strut having a transverse cross section, the transverse cross section having a top side, a bottom side, a right side and a left side, wherein the top and bottom sides are substantially flat, and the left and right sides are substantially curved.

32 14. The stent of claim 13 wherein the catheter is a balloon catheter.

33 15. The stent of claim 13 wherein the cross section is ellipsoidal.

34 16. The stent of claim 13 wherein the bottom side joins the left side through a smooth rounded edge.

35 17. The stent of claim 13 wherein the top side joins the left side through a smooth rounded edge.

36 18. The stent of claim 13 wherein further comprising a second stent section, the second section coupled to the first section.

37 19. A stent comprising  
at least one strut, the at least one strut has a transverse cross section, the transverse cross section having a top side, a bottom side, a right side and a left side, wherein the top side joins the left and right sides through a smooth rounded edge, wherein the top side is substantially

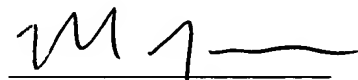
38 flat.  
20. The stent of claim 13 wherein the bottom side is substantially flat.

39 20. The stent of claim 13 wherein the left and rights sides are substantially curved.

40 21. The stent of claim 13 wherein the left and rights sides are substantially flat.

41 22. The stent of claim 13 wherein the bottom side joins the left side through a smooth rounded edge.

Respectfully Submitted,



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